MDS-4000 DISC MEMORY SYSTEM
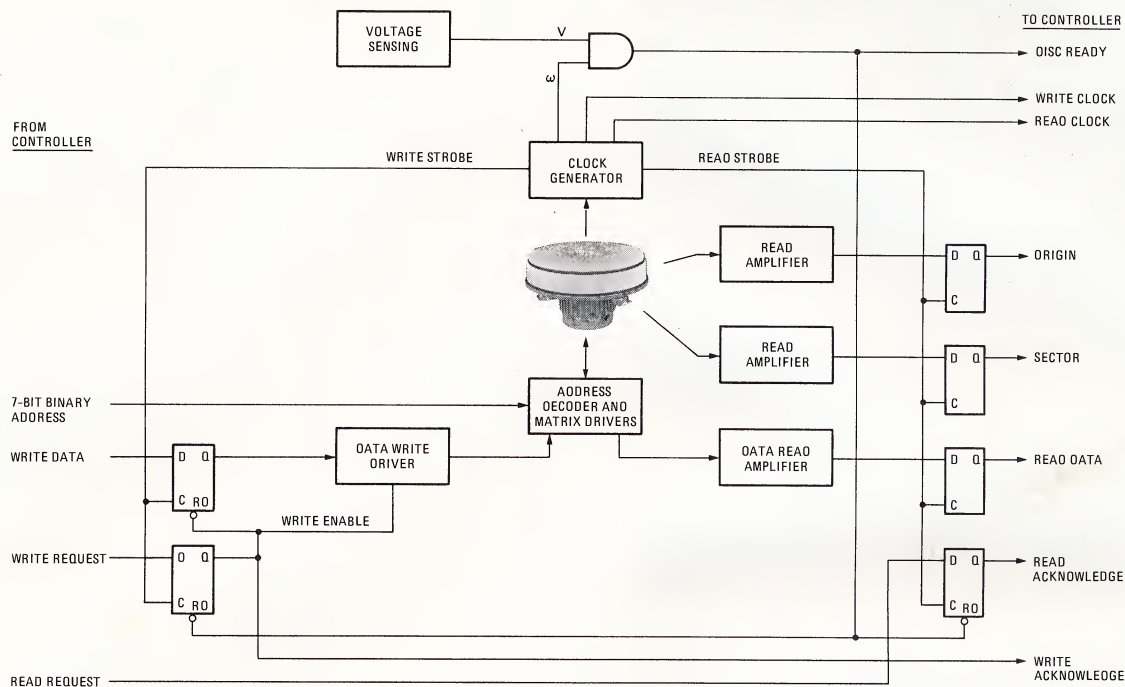
- Large storage capacity
- Flying head-per-track
- 2.5 MHz serial transfer rate
- 17 ms access time
- Compact size
- Maintenance-free
- Simplified TTL/MSI interface
- Low cost
- High reliability

DESCRIPTION

The MDS-4000 is a compact, high-performance, random access memory system designed especially for the small and medium scale computer. With a storage capacity of 680,000 to 5.4 million bits, this low-cost memory transfers serial data at 2.5 megabits per second. Electronic switching of the flying head-per-track disc, coupled with advanced electronic design, maximizes system data throughput. An integral drive system and lifetime-lubricated bearings assure years of maintenance-free and trouble-free service. Although designed and built to be extremely reliable, all field-repairable components are easily accessible.

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Disc Memories • Memory Electronics • Computer Controllers

SPECIFICATIONS

Capacity

Model No.	Bit Capacity	Data Tracks
EDP 4064	5.4 million	64
EDP 4032	2.7 million	32
EDP 4016	1.35 million	16
EDP 4008	0.68 million	8

Data Transfer Rate

2.54 million bits per second maximum

Access Time

17 milliseconds

Track Capacity

85,000 bits maximum

Recording Transducer

Flying heads — one head per track, eight heads per assembly

Recording Media

12-inch diameter disc, Ni-Co hard plated

Timing Tracks

Three tracks — bit clock, origin, sector

Logic Circuitry

TTL integrated circuits
Input load — 2 standard loads maximum
Output drive — 10 standard loads minimum

Recovery Time

Track switching — 1/2 microsecond
Read after track switching — 2 microseconds
Read after write — 10 microseconds

Mounting

Requires 10-1/2 inch panel height in standard RETMA enclosure, 19 inch depth behind front panel

Weight

50 lb, excluding chassis hardware

DC Power Requirements

|	
+5V	0.5A
-5V	0.25A
+24V	0.4A

Motor

Integrally mounted, direct drive
Type — series wound, induction
Speed — 1775 rpm nominal
Power — 115V, 60 Hz, single phase
Run current — 3A
Start current — 8A for 10 seconds maximum

Environment

Operating temperature — 5° to 45°C
Operating humidity — 90% maximum without condensation

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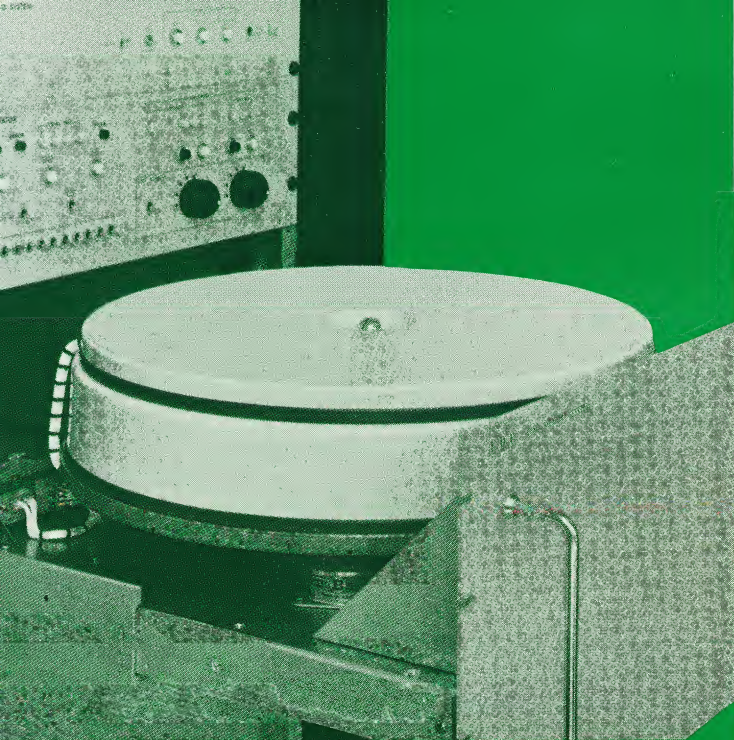
MDS-3000 DISC MEMORY SYSTEM

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- Large storage capacity

- Flying head-per-track

- 1.5 MHz serial transfer rate

- 17 ms access time

- Compact size

- Maintenance-free

- Simplified TTL/MSI interface

- Low cost

- High reliability

DESCRIPTION

The MDS-3000 is a compact, high-performance, random access memory system designed especially for the small and medium scale computer. With a storage capacity of 400,000 to 6 million bits, this low-cost memory transfers serial data at 1.5 megabits per second. Electronic switching of the flying head-per-track disc, coupled with advanced electronic design, maximizes system data throughput. An integral drive system and lifetime-lubricated bearings assure years of maintenance-free and trouble-free service. Although designed and built to be extremely reliable, all field-repairable components are easily accessible.
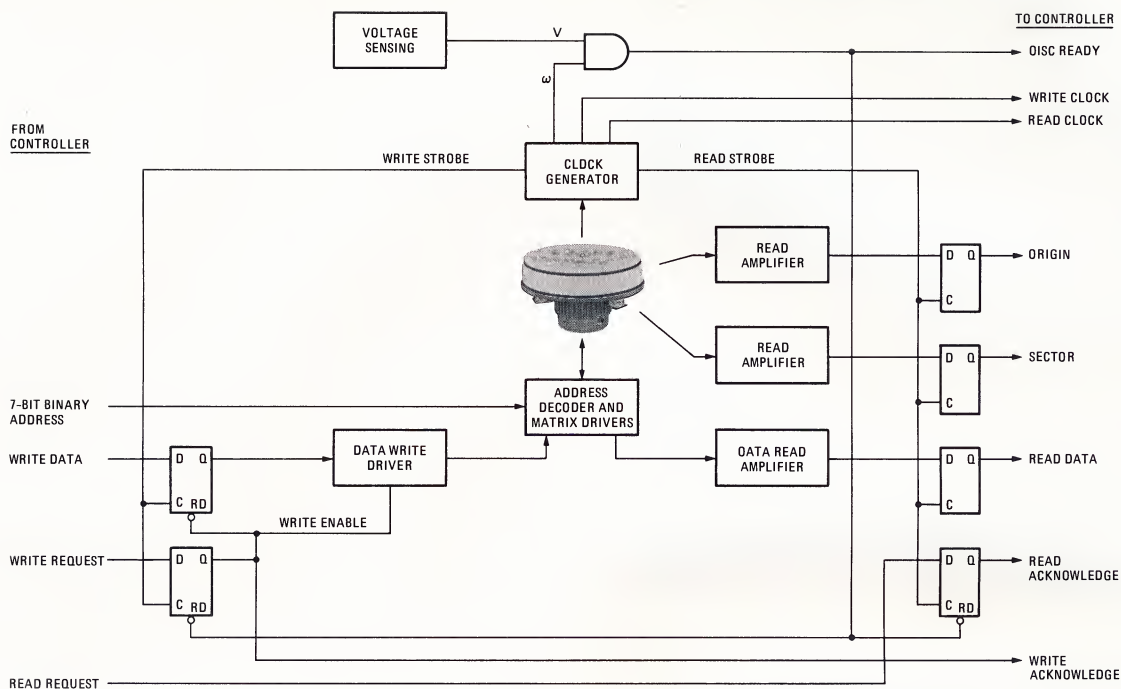
SPECIFICATIONS

Capacity

Model No.	Bit Capacity	Data Tracks
EDP 3120	6.0 million	120
EDP 3064	3.2 million	64
EDP 3032	1.6 million	32
EDP 3016	0.8 million	16
EDP 3008	0.4 million	8

Data Transfer Rate

1.5 million bits per second maximum

Access Time

17 milliseconds

Track Capacity

50,000 bits maximum

Recording Transducer

Flying heads — one head per track, eight heads per assembly

Recording Media

12-inch diameter disc, Ni-Co hard plated

Timing Tracks

Three tracks — bit clock, origin, sector

Logic Circuitry

TTL integrated circuits
Input load   — 2 standard loads maximum
Output drive — 10 standard loads minimum

Recovery Time

Track switching   — 1/2 microsecond
Read after track switching — 2 microseconds
Read after write   — 10 microseconds

Mounting

Requires 10-1/2 inch panel height in standard RETMA enclosure, 19 inch depth behind front panel

Weight

50 lb, excluding chassis hardware

DC Power Requirements

+5V	0.5A
-5V	0.25A
+24V	0.4A

Motor

Integrally mounted, direct drive
Type   — series wound, induction
Speed   — 1775 rpm nominal
Power   — 115V, 60 Hz, single phase
Run current — 3A
Start current — 8A for 10 seconds maximum

Environment

Operating temperature — 5° to $45^{\circ}C$
Operating humidity   — 90% maximum without condensation

Fast inter-track switching. WORD-ADDRESSABLE OPTION. ☆

MDS-2000 DISC MEMORY SYSTEM

- Large storage capacity
- Flying head-per-track
- 3 MHz serial transfer rate
- 8.5 ms access time
- Compact size
- Maintenance-free
- Simplified TTL/MSI interface
- Low cost
- High reliability

DESCRIPTION

The MDS-2000 is a compact, high-performance, random access memory system designed especially for the small and medium scale computer. With a storage capacity of 400,000 to 6 million bits, this low-cost memory transfers serial data at 3 megabits per second. Electronic switching of the flying head-per-track disc, coupled with advanced electronic design, maximizes system data throughput. An integral drive system and lifetime-lubricated bearings assure years of maintenance-free and trouble-free service. Although designed and built to be extremely reliable, all field-repairable components are easily accessible.

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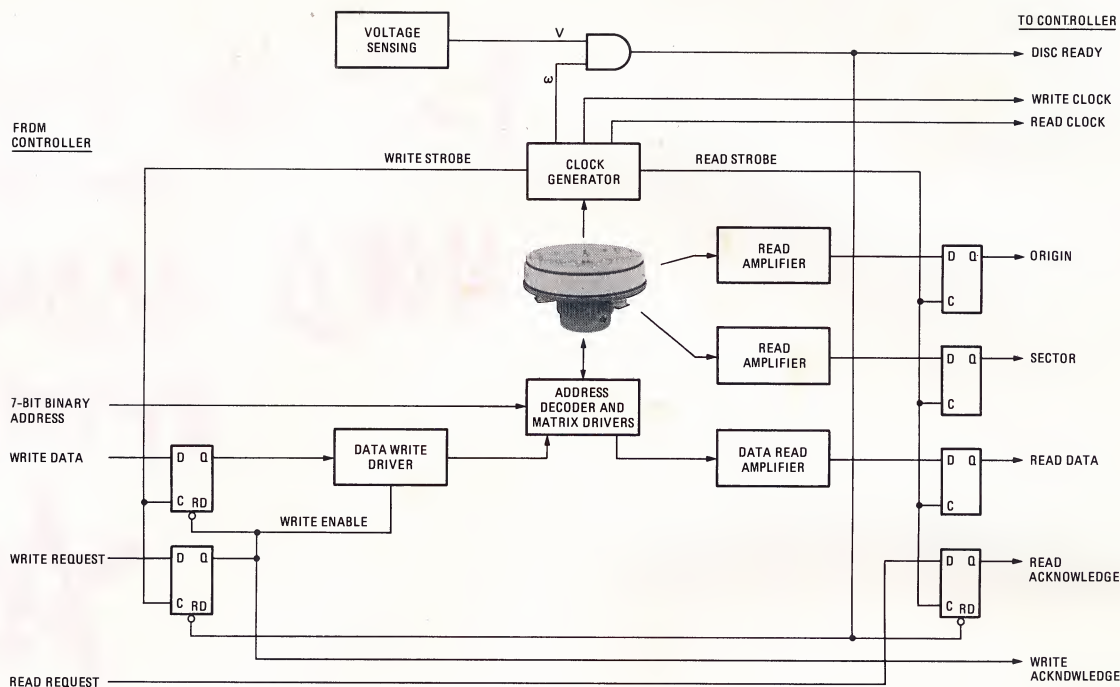
SPECIFICATIONS

Capacity

Model No.	Bit Capacity	Data Tracks
EDP 2120	6.0 million	120
EDP 2064	3.2 million	64
EDP 2032	1.6 million	32
EDP 2016	0.8 million	16
EDP 2008	0.4 million	8

(handwritten: $8.5K, $3.2K)

Data Transfer Rate

3 million bits per second maximum

Access Time

8.5 milliseconds

Track Capacity

50,000 bits maximum

Recording Transducer

Flying heads — one head per track, eight heads per assembly

Recording Media

12-inch diameter disc, Ni-Co hard plated

Timing Tracks

Three tracks — bit clock, origin, sector

Logic Circuitry

TTL integrated circuits
Input load   — 2 standard loads maximum
Output drive — 10 standard loads minimum

Recovery Time

Track switching	— 1/2 microsecond
Read after track switching	— 2 microseconds
Read after write	— 10 microseconds

Mounting

Requires 10-1/2 inch panel height in standard RETMA enclosure, 19 inch depth behind front panel

Weight

50 lb, excluding chassis hardware

DC Power Requirements

+5V	0.5A
-5V	0.25A
+24V	0.4A

Motor

Integrally mounted, direct drive
Type   — series wound, induction
Speed   — 3575 rpm nominal
Power   — 115V, 60 Hz, single phase
Run current — 4A
Start current — 17A for 10 seconds maximum

Environment

Operating temperature — 5° to 45°C
Operating humidity   — 90% maximum without condensation